



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# z/OS System Services Structure

CODE:	LENGTH:	PRICE:
ES20G	36 Hours (4.5 days)	€3,900.00

## Description

This course presents the structure and control blocks of the z/OS BCP and system services. It prepares the new z/OS system programmer to identify potential bottlenecks and performance problems, perform initial error symptom gathering, and identify opportunities and requirements for tailoring a z/OS system. This course also provides prerequisite information needed for further training in specialized areas such as system measurement and tuning and system problem determination.

## Objectives

- Explain the MVS functions and control blocks necessary to support a task in a multitasking and multiprocessing environment
- Describe the software and hardware functions that allow a program to interact with programs running in other address spaces, use data in other address spaces, and use data in data spaces
- Trace the flow of an I/O operation from the initial request in the application program through the completion of data transfer
- Identify the control blocks that describe the current status of an I/O request
- Describe the functions of the z/OS BCP Virtual, Real, and Auxiliary Storage Managers
- Describe the functions performed by the Recovery Termination Manager and recovery management components to minimize failure impact and enhance error correction
- Select the appropriate IBM publication to provide further technical information (SRLs, Technical Bulletins, Self-study and other z/OS courses)
- Describe the services provided by cross system extended services (XES)
- Identify and explain the purpose of the cache, list, and lock structures
- Plan the implementation of the global resource serialization STAR environment.0.2 pref

## Audience

The primary audience for this intermediate course are z/OS system programmers who are new to z/OS installation, customization, measurement and tuning, or problem determination. Subsystem programmers will also benefit from this class.

## Prerequisites

You should be able to:

- Describe the following z/OS BCP (MVS) characteristics:
  - multiprocessing
  - multiprogramming
  - virtual storage **and** paging
  - **and** multiple address space/data space architecture
- Explain how paging **and** swapping are accomplished through the interaction of real/central, expanded, auxiliary, **and** virtual storage in a z/OS system
- Explain the role of the dispatcher, interrupts, SVCs, the program manager, **and** serialization in managing work in a z/OS system
- State the role of z/OS software **and** hardware components in handling an I/O request for data on a direct access storage device

These prerequisites can be met through on the job training **or** completion of z/OS Facilities.

**Note:** A fundamental knowledge of hexadecimal notation, assembler language, **and** z/Architecture instruction execution will enhance your understanding of the course material. Completion of Assembler Language Coding Workshop **or** Assembler Language Series is recommended.

## Programme

### Day 1

- Welcome
- Unit 1 - z/OS system introduction

### Day 2

- Unit 2 - Operating environment initialization
- Unit 3 - Task management

### Day 3

- Unit 4 - Addressability
- Unit 5 - Input/Output supervisor

### Day 4

- Unit 6 - Storage management
- Unit 7 - Recovery termination manager

### Day 5

- Unit 7 - Recovery termination manager (Continued)

## Further Information

Prior to enrolling, IBM Employees must follow their Division/Department processes to obtain approval to attend this public training class. Failure to follow Division/Department approval processes may result in the IBM Employee being personally responsible for the class charges.

GBS practitioners that use the EViTA system for requesting external training should use that same process for this course. Go to the EViTA site to start this process: <http://w3.ibm.com/services/gbs/evita/BCSVTEnr1.nsf>

Once you enroll in a GTP class, you will receive a confirmation letter that should show:

- The current GTP list price
- The 20% discounted price available to IBMers. This is the price you will be invoiced for the class.

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
17 Apr 2023	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		€3,900.00
13 Nov 2023	Virtual Classroom (GMT / UTC)	GMT	English	Instructor Led Online		€3,900.00

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)